Special Issue

Experimental and Theoretical Studies on the Physical Properties of Lanthanides, Actinides, and Their Compounds

Message from the Guest Editor

Lanthanides and actinides are extremely important technological materials. Lanthanides have been widely used as alloys to impart strength and hardness to metals. The main lanthanide used for this purpose is cerium, mixed with small amounts of lanthanum, neodymium, and praseodymium. These metals are also widely used in the petroleum industry for refining of crude oil into gasoline products. The actinides are valuable primarily because they are radioactive. These elements can be used as energy sources for applications as varied as cardiac pacemakers and generation of electrical energy for instruments on the moon. Uranium and plutonium have been employed in nuclear weapons and in nuclear power plants.

This Special Issue is devoted to the forefront of research on the physical properties of lanthanides, actinides, and their compounds. Research papers as well as review articles that represent the most recent advances in both experimental and theoretical studies on lanthanides, actinides, and their compounds, in the form of original research, are welcome to be submitted to this Special Issue.

Guest Editor

Dr. Leonid Burakovsky
Theoretical Division, T-1, Los Alamos National Laboratory, Los Alamos, NM 87545, USA

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Applied Sciences
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
applsci@mdpi.com

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Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo
Dipartimento di Fisica, Politecnico di Milano, Piazza L. da Vinci 32, 20133 Milano, Italy

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